

What is claimed is:

1. A wheel for a pneumatic, tubeless tire, comprising a rim having a flange of height H and width Y, and a well having a depth G, a well floor diameter D_w , a well floor circumference C_w , and a well position W relative to the flange on a mounting side of the wheel, wherein, for a tire having a bead seat circumference C_t and wherein an additional length M has a value in a range of approximately 75 to 100 mm, the wheel satisfying the relationship:

$$C_t = 0.5C_w + 2\sqrt{0.5D_w^2 + (0.5D_w + G + H)^2 + (W + Y)^2} + M$$

is mountable on the wheel by hand without tools.

2. A pneumatic tire and wheel assembly, the tire being hand-mountable on the wheel without tools, comprising:

a tire having a bead with a bead seat circumference of C_t ; and,

a wheel having a rim with a flange of height H and width Y, and a well having a depth G, a well floor diameter D_w , a well floor circumference C_w , and a well position W relative to the flange on a mounting side of the wheel, satisfying the relationship:

$$C_t = 0.5C_w + 2\sqrt{0.5D_w^2 + (0.5D_w + G + H)^2 + (W + Y)^2} + M$$

wherein, M has a value of at least 80 mm.

3. The assembly as claimed in claim 2, wherein M is not more than about 100 mm.
4. The assembly as claimed in claim 2, wherein the tire bead has an ovalization stiffness of not more than 0.7 N/mm.